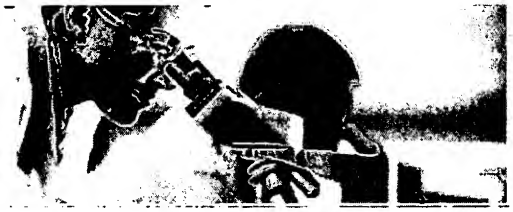

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Material Safety Data Sheets

Inherent Viscosity vs. Molecular Wei

Inherent Viscosity (IV) is a viscometric method for measuring molecular : based on the flow time of a polymer solution through a narrow capillary r flow time of the pure solvent through the capillary. The units of IV are typ in deciliters per gram (dL/g). IV is simple and inexpensive to obtain and r between different laboratories

Gel Permeation Chromatography (GPC) is a chromatographic method fc molecular size. The molecular size can be expressed as molecular weig obtained from calibration with a standard polymer such as polystyrene. M by GPC are very method-dependant and are much less reproducible bet laboratories.

The six plots below are empirical correlations between IV and MW meas polymer compositions produced by Durect Corporation. The IV data for poly(DL -lactide- *co* -glycolide) and 65:35 poly(DL -lactide- *co* -glycolide obtained in hexafluoroisopropanol (HFIP). The IV data for the four rema compositions were obtained in chloroform. All GPC data for these plots obtained in chloroform using polystyrene calibration standards. It is imp that these are empirical correlations between IVs and MWs. MWs obtain conditions different from those use in our laboratory may not match the c shown here.